



Placer County Flood Control and Water Conservation District
Federal Emergency Management Agency
Cooperating Technical Partner
Mapping Activity Statement
Task 1

Task #1 - Hydrologic Analyses

In accordance with the Cooperating Technical Partner (CTP) Memorandum of Agreement dated August 13, 2001 between the Placer County Flood Control and Water Conservation District and the Federal Emergency Management Agency (FEMA), Task #1 is as follows:

1. **Objective and Scope:** The objective of this Mapping Activity is to develop detailed hydrologic analyses for portions of Linda and Pleasant Grove Creeks in Placer County. Hydrologic analyses will be completed for approximately 16 square miles of drainage area on Linda Creek and 16 square miles on Pleasant Grove Creek.
2. **Period of Performance:**
This Mapping Activity will begin on September 30, 2001 and end no later than September 30, 2004. This Mapping Activity may be terminated at the option of FEMA or Placer County Flood Control and Water Conservation District in accordance with the provisions of the August 13, 2001 CTP Memorandum of Agreement.
3. **Fundingcost-Sharing:** Development of the hydrological analysis is a non-funded mapping activity. The Placer County Flood Control and Water Conservation District agrees to provide staff and technical resources sufficient to compete task 1.
4. **Standards:** The following standards and documents are relevant to this Mapping Activity:
 - Detailed hydrologic analyses and floodplain mapping will follow the standards set forth in FEMA 37, *Guidelines and Specifications for Study Contractors* (January 1995) and Title 44 of the Code of Federal Regulations (CFR), Part 65. FEMA 37 is available at FEMA's web site at <http://www.fema.gov/mit/tsd/EN.htm>.
 - Computer models used for hydrologic and/or hydraulic analyses will meet the requirements of 44 CFR 65.6(a)(6) and be on FEMA's *Numerical Models Accepted by FEMA for NFIP Usage* (http://www.fema.gov/mit/tsd/EN_mod1.htm).
5. **Products:** Placer County Flood Control and Water Conservation District will make available items outlined in Chapter 11 of FEMA 37 in the Technical Support Data Notebook (TSDN) format. These include:
 - Digital copies of all hydrologic modeling (input and output files); and
 - All back-up data used in the analyses or mapping.
6. **Schedule and Milestones:**

August 13, 2001

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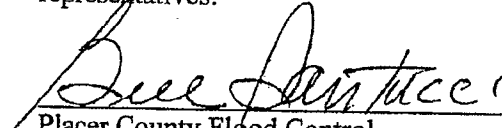
Federal Emergency Management Agency
Mapping Activity Statement/Hydrologic Analyses

Milestone 1 (Hydrology Phase): Upon completion, products for the first milestone will be provided by the Placer County Flood Control and Water Conservation District to the FEMA Project Officer. This includes draft hydrologic analyses in accordance with the TSDN format. Milestone 1 shall be completed by January 1, 2002.

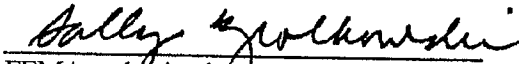
Milestone 2 (Final Products): Upon completion, final products will be provided by the Placer County Flood Control and Water Conservation District to the FEMA Project Officer. These include the completed TSDN and accompanying data. Final products will be made available in accordance with the Period of Performance described in Section 2 of this Mapping Activity Statement.

7. **Certification:** The following certifications apply to this Mapping Activity (as appropriate):
 - Hydrologic and/or hydraulic analyses and data will be certified by a registered professional engineer or licensed land surveyor in accordance with 44 CFR 65.6(f).
8. **Technical Assistance and Resources:** Placer County Flood Control and Water Conservation District may obtain copies of archived engineering back-up data. General technical and programmatic information can be downloaded from FEMA's Flood Hazard Mapping web site (www.fema.gov/mit/tsd). Specific technical and programmatic support will be provided through FEMA's Map Coordination Contractor, Nolte and Associates; such assistance is to be requested through the FEMA Project Officer specified in Section 12 of this Mapping Activity Statement.
9. **Subcontractors:** Not Applicable.
10. **Quality Assurance/Quality Control (QA/QC) Procedures:** The QA/QC procedures outlined in Chapter 10 of the *Guidelines and Specifications for Study Contractors* shall be followed during the development of the hydrologic and hydraulic analyses and floodplain mapping. Analyses and mapping will be independently reviewed for compliance with the standards defined in Section 4 of this Mapping Activity Statement by the FEMA Study Contractor Nolte and Associates.
11. **Reporting:** *Delivery of the hydrologic analyses shall be considered fulfillment of this item.*
12. **Points of Contact:** The FEMA Project Officer is Les Sakumoto, P.E., telephone 415.923.7183, and the Placer County Flood Control and Water Conservation District Project Manager is Leslie Gault, P.E., telephone 530.889.7592, or subsequent personnel of comparable experience who are appointed to fulfill these responsibilities.

Each party has caused this Mapping Activity Statement to be executed by its duly authorized representatives.

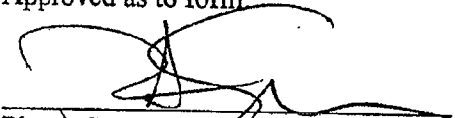

Placer County Flood Control
and Water Conservation District

8-13-01
date


FEMA authorized representative

8/22/01
date

Approved as to form:


Placer County Flood Control and Water Conservation District
District Counsel